Appl. No. 09/988,438   <u>PATENT</u>
Amdt. dated February 13, 2006
Reply to Office Action of September 23, 2005

<u>Amendments to the Claims:</u>

This listing of claims will replace all prior versions, and listings of claims in the application:

<u>Listing of Claims:</u>

    1.   (Currently Amended) A data transcribing ~~program~~ <u>method, performed by a</u> <u>computer,</u> for transcribing data from data structure of a structured document to data structure of a program language, including ~~codes for executing~~ the steps of:

    acquiring definition information on document structure of said structured document, definition information on a structure of said program language, and correspondence information between said document structure of said structured document and said structure of said program language,

    creating, based on said acquired information, ~~a flag structure for storing state of said structure of said program language, and a structure of said program language corresponding to said flag structure~~ <u>a transcription state storing structure for storing a state of each element for</u> <u>which data in said structured document is to be transcribed into data of said program language,</u> and

    ~~using said created flag structure and said created structure of said program language corresponding to said flag structure, thereby transcribing said data from said data structure of said structured document to said data structure of said program language~~ <u>transcribing the data in said structured document into the data of said program language while</u> <u>setting the transcribing state of each element in said transcription state storing structure.</u>

    2.   (Currently Amended) A data transcribing ~~program~~ <u>method, performed by a</u> <u>computer,</u> for transcribing data from data structure of a program language to data structure of a structured document, including ~~codes for executing~~ the steps of:

    acquiring definition information on document structure of said structured document, definition information on a structure of said program language, and correspondence information between said document structure of said structured document and said structure of

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said program language,

preparing ~~creating~~, based on said acquired information, ~~a flag structure for~~ ~~storing state of said structure of said program language, and a structure of said program language~~ ~~corresponding to said flag structure,~~ a transcription state storing structure for storing a state of each element for which data of said program language is to be transcribed into data in said structured document, and

~~using said created flag structure and said created structure of said program~~ ~~language corresponding to said flag structure, thereby transcribing said data from said data~~ ~~structure of said program language to said data structure of said structured document.~~ transcribing the data of said program language into the data in said structured document while setting the transcribing state of each element in said transcription state storing structure.

Claims 3-5. (Canceled)

6.   (New) The data transcribing method as claimed in Claim 1, wherein, by specifying partial element correspondence between said document structure of said structured document and said structure of said program language in said correspondence information, said transcription state storing structure is created for the specified partial element, and

wherein data corresponding to said specified partial element in said structured document is transcribed into said structure of said program language while the transcription state is set in the transcription state storing structure.

7.   (New) The data transcribing method as claimed in Claim 1, wherein, by specifying an iteration number of a specified partial element with partial element correspondence between said document structure of said structured document and said structure of said program language in said correspondence information, said transcription state storing structure for the specified iteration number of the specified partial structure is created, and

wherein the iteration number pieces of data corresponding to said specified partial

element in said structured document are transcribed into said structure of said program language while said specified element transcription states are set in said transcription state storing structure.

8.   (New) The data transcribing method as claimed in Claim 2, wherein, by specifying partial structure correspondence between said document structure of said structured document and said structure of said program language in said correspondence information, said transcription state storing structure is created for the specified partial structure, and

wherein data corresponding said specified partial structure in said structure of said program language is transcribed into said structured document while the transcription state is set in the transcription state storing structure.

9.   (New) The data transcribing method as claimed in Claim 2, wherein, by specifying an iteration number of a specified partial structure with partial structure correspondence between said document structure of said structured document and said structure of said program language in said correspondence information, said transcription state storing structure for the specified iteration number of the specified partial structure is created, and

wherein the iteration number pieces of data corresponding to said specified partial structure in said program language are transcribed into said structure of said structured document while said specified element transcription states are set in said transcription state storing structure.

10.   (New) A data transcribing system for transcribing data from data structure of a structured document to data structure of a program language, comprising:

a data transcription processing unit operable to acquire definition information on a document structure of said structured document, definition information on a structure of said program language, and correspondence information between said document structure of said structured document and said structure of said program language, the data transcription processing unit being further operable to:

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create, based on said acquired information, a transcription state storing structure for storing a state of each element for which data in said structured document is to be transcribed into data of said program language, and

transcribe the data in said structured document into the data of said program language while setting the transcribing state of each element in said transcription state storing structure.

11. (New) A data transcribing system for transcribing data from data structure of a program language to data structure of a structured document, comprising:

a data transcription processing unit operable to acquire definition information on a document structure of said structured document, definition information on a structure of said program language, and correspondence information between said document structure of said structured document and said structure of said program language, the data transcription processing unit being further operable to:

prepare, based on said acquired information, a transcription state storing structure for storing a state of each element for which data of said program language is to be transcribed into data in said structured document, and

transcribe the data of said program language into the data in said structured document while setting the transcribing state of each element in said transcription state storing structure.

12. (New) The data transcribing system as claimed in Claim 10, wherein, by specifying partial element correspondence between said document structure of said structured document and said structure of said program language in said correspondence information, said transcription state storing structure is created for the specified partial element, and

wherein data corresponding to said specified partial element in said structured document is transcribed into said structure of said program language while the transcription state is set in the transcription state storing structure.

13.　(New) The data transcribing system as claimed in Claim 10, wherein, by specifying an iteration number of a specified partial element with partial element correspondence between said document structure of said structured document and said structure of said program language in said correspondence information, said transcription state storing structure for the specified iteration number of the specified partial structure is created, and

wherein the iteration number pieces of data corresponding to said specified partial element in said structured document are transcribed into said structure of said program language while said specified element transcription states are set in said transcription state storing structure.

14.　(New) The data transcribing system as claimed in Claim 11, wherein, by specifying partial structure correspondence between said document structure of said structured document and said structure of said program language in said correspondence information, said transcription state storing structure is created for the specified partial structure, and

wherein data corresponding said specified partial structure in said structure of said program language is transcribed into said structured document while the transcription state is set in the transcription state storing structure.

15.　(New) The data transcribing system as claimed in Claim 11, wherein, by specifying an iteration number of a specified partial structure with partial structure correspondence between said document structure of said structured document and said structure of said program language in said correspondence information, said transcription state storing structure for the specified iteration number of the specified partial structure is created, and

wherein the iteration number pieces of data corresponding to said specified partial structure in said program language are transcribed into said structure of said structured document while said specified element transcription states are set in said transcription state storing structure.

16.   (New) A computer program product embedded in a computer-readable medium for transcribing data from data structure of a structured document to data structure of a program language, the computer program product including:

a code segment including instructions for acquiring definition information on document structure of said structured document, definition information on a structure of said program language, and correspondence information between said document structure of said structured document and said structure of said program language,

a code segment including instructions for creating, based on said acquired information, a transcription state storing structure for storing a state of each element for which data in said structured document is to be transcribed into data of said program language, and

a code segment including instructions for transcribing the data in said structured document into the data of said program language while setting the transcribing state of each element in said transcription state storing structure.

17.   (New) A computer program product embedded in a computer-readable medium for transcribing data from data structure of a structured document to data structure of a program language, the computer program product including:

a code segment including instructions for a data transcription processing unit operable to acquire definition information on a document structure of said structured document, definition information on a structure of said program language, and correspondence information between said document structure of said structured document and said structure of said program language;

a code segment including instructions for preparing, based on said acquired information, a transcription state storing structure for storing a state of each element for which data of said program language is to be transcribed into data in said structured document, and

a code segment including instructions for transcribing the data of said program language into the data in said structured document while setting the transcribing state of each element in said transcription state storing structure.

18.   (New) The computer program product as claimed in Claim 16, wherein, by specifying partial element correspondence between said document structure of said structured document and said structure of said program language in said correspondence information, said transcription state storing structure is created for the specified partial element, and

wherein data corresponding to said specified partial element in said structured document is transcribed into said structure of said program language while the transcription state is set in the transcription state storing structure.

19.   (New) The computer program product as claimed in Claim 16, wherein, by specifying an iteration number of a specified partial element with partial element correspondence between said document structure of said structured document and said structure of said program language in said correspondence information, said transcription state storing structure for the specified iteration number of the specified partial structure is created, and

wherein the iteration number pieces of data corresponding to said specified partial element in said structured document are transcribed into said structure of said program language while said specified element transcription states are set in said transcription state storing structure.

20.   (New) The computer program product as claimed in Claim 17, wherein, by specifying partial structure correspondence between said document structure of said structured document and said structure of said program language in said correspondence information, said transcription state storing structure is created for the specified partial structure, and

wherein data corresponding said specified partial structure in said structure of said program language is transcribed into said structured document while the transcription state is set in the transcription state storing structure.

21.   (New) The computer program product as claimed in Claim 17, wherein, by specifying an iteration number of a specified partial structure with partial structure

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correspondence between said document structure of said structured document and said structure of said program language in said correspondence information, said transcription state storing structure for the specified iteration number of the specified partial structure is created, and

wherein the iteration number pieces of data corresponding to said specified partial structure in said program language are transcribed into said structure of said structured document while said specified element transcription states are set in said transcription state storing structure.